

Comparisons of Job Characteristics

Focus Occupation: [Maintenance Workers, Machinery \(49-9043\)](#)

Associated Occupation: [Mobile Heavy Equipment Mechanics, Except Engines \(49-3042\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 86

Focus Occupation: Maintenance Workers, Machinery (49-9043)

Associated Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mechanical	6.8	23.6	21.8	0 Current knowledge level may be sufficient
Engineering and Technology	5.7	10.2	10.8	0 Current knowledge level may be sufficient
Physics	4.3	7.9	7.2	0 Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 94

Focus Occupation: Maintenance Workers, Machinery (49-9043)

Associated Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Troubleshooting	4.5	13.6	11.0	< A higher skill level may be required
Repairing	3.4	13.2	11.8	< A higher skill level may be required
Equipment Maintenance	3.5	12.9	11.9	0 Current skill level may be sufficient
Operation Monitoring	6.6	11.9	11.9	0 Current skill level may be sufficient
Quality Control Analysis	5.9	11.9	10.0	< A higher skill level may be required
Operation and Control	5.4	10.8	10.6	0 Current skill level may be sufficient
Equipment Selection	3.3	9.3	8.5	0 Current skill level may be sufficient
Management of Material Resources	3.7	6.4	2.7	<< Extensive development of skills in this area may be required
Installation	1.7	6.0	4.3	<< Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 87			
Focus Occupation: Maintenance Workers, Machinery (49-9043) Associated Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Control Precision	6.6	13.9	9.5	<<	Extensive improvement in abilities may be required
Multilimb Coordination	6.0	13.5	8.2	<<	Extensive improvement in abilities may be required
Extent Flexibility	4.8	13.4	7.9	<<	Extensive improvement in abilities may be required
Manual Dexterity	6.5	13.0	9.7	<<	Extensive improvement in abilities may be required
Finger Dexterity	7.6	12.9	9.4	<<	Extensive improvement in abilities may be required
Visualization	7.5	12.2	10.0	<	Some improvement in abilities may be required
Reaction Time	4.8	11.4	8.4	<<	Extensive improvement in abilities may be required
Hearing Sensitivity	5.6	11.0	6.6	<<	Extensive improvement in abilities may be required
Response Orientation	4.0	9.4	5.8	<<	Extensive improvement in abilities may be required
Sound Localization	2.2	5.8	4.0	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 88
Focus Occupation: Maintenance Workers, Machinery (49-9043) Associated Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042)		
Work Activities	Exclusivity of Activity	
Adhere to safety procedures	12	
Adjust or set mechanical controls or components	69	
Apply cleaning solvents	41	
Fabricate sheet metal parts or items	80	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Inspect machinery or equipment to determine adjustments or repairs needed	42	
Lubricate machinery, equipment, or parts	59	
Maintain or repair industrial or related equipment/machinery	39	

Maintain repair records	65
Move or fit heavy objects	8
Operate crane in construction, manufacturing or repair setting	76
Operate hoist, winch, or hydraulic boom	34
Perform safety inspections in industrial, manufacturing or repair setting	32
Read work order, instructions, formulas, or processing charts	9
Repair or replace malfunctioning or worn mechanical components	62
Test mechanical products or equipment	56
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use acetylene welding/cutting torch	54
Use control or regulating devices to adjust or maintain industrial machinery	89
Use hand or power tools	2
Use knowledge of metric system	39
Use measuring devices in repairing industrial or heavy equipment	84
Use precision measuring devices in mechanical repair work	61

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 81

Focus Occupation: Maintenance Workers, Machinery (49-9043)

Associated Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042)

Tools and Technologies	Exclusivity
Computers	1
Cutting and crimping and punching tools	3
Data management and query software	1
Dispensing tools	6
Face and head protection	7
Fastener setting tools	12
Forming tools	2
Hearing protectors	12
Holding and clamping tools	3
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Measuring and layout tools	3
Pneumatic tools	8
Power tools	2
Respiratory protection	6
Rough and finishing tools	5
Soldering and brazing and welding machinery and supplies	6
Special tooling fixtures	16
Vision protection and accessories	3

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.